

ABC Workshop 2007 Program

October 4, 2007

9:00 –10:00 **Registration**

10AM-12 PM

10AM **Welcome Michael Dean**

10:30 **Session 1 Chair- Malini Rhaghavan**

10:30 Talk 1 Malini Rhaghavan
The transporter associated with antigen processing (TAP) and the cytotoxic T lymphocytes (CTL) response to infections and tumors

11:00 Talk 2 John Lynch
ABCB6 is a regulator of hemoprotein homeostasis and of heme-dependent cellular processes.

11:20 Talk 3 Ozlem Demirel
Identification of a lysosomal antigenic peptide transport system induced during dendritic cell development

11:40 Talk 4 Lisa Timmons
ABC Transporters and RNAi

12-1:30 Lunch Break in the Café and Posters

1:30-3:10 **Session 2 Chair- Balazs Sarkadi**

1:30 Talk 5 Balazs Sarkadi
Regulation of the ABCG2 multidrug transporter by membrane cholesterol

1:50 Talk 6 Anika Hartz
Non-Genomic Regulation of ABCG2/BCRP at the Blood-Brain Barrier by 17- β -Estradiol

2:10 Talk 7 Suneet Shukla
The naphthoquinones, vitamin K3 and its structural analog plumbagin, are substrates of the multidrug resistance-linked ABC drug transporter ABCG2

2:30 Talk 8 Maria Vlaming
Generation and characterization of Bcrp1(Abcg2);Mrp2(Abcc2)-/- mice.

2:50 Talk 9 Chung-Pu Wu
Dual modulatory functions of thiosemicarbazone: interactions of NSC73306 with the multidrug resistance-linked ABCG2 transporter

3:10-4:30 Break and Posters

4:30-6:10 **Session 3** **Chair Zhe-Sheng Chen**

- 4:30 Talk 10 Sara Eyal
Effect of Gestational-Age on P-glycoprotein Activity at the Primate Blood-Brain Barrier (BBB) and the Blood-Placental Barrier (BPB): An OPRU and UW SCOR Study
- 4:50 Talk 11 Jean-Pierre Gillet
Gene expression profiling of multidrug resistance mechanisms in ovarian cancer using TaqMan Low Density Arrays
- 5:10 Talk 12 Brian Hawkins
Acute reduction of p-glycoprotein/ABCB1 activity in brain capillaries by vascular endothelial growth factor
- 5:30 Talk 13 Marcos Pires
Bivalent probes of the human multidrug transporter P-glycoprotein/ABCB1
- 5:50 Talk 14 Marianne DeGorter
Molecular modeling of the human multidrug resistance protein 1 (MRP1/ABCC1) using the structure of *S. aureus* Sav1866 as template

Transportation to Hotel/Dinner – Hampton Inn Frederick

October 5, 2007

9-10:20

Session 4

9:00 **Introduction and Chair Ken Tew**

9:20 Talk 15 Carol Brown
Abca2 deficiency impacts lipid homeostasis in vivo: Implications on peripheral nervous system structure/function

9:40 Talk 16 Surafel Mulugeta
Targeting roles of two conserved motifs in the N-terminal domain of ABCA3

10:00 Talk 17 Dawei Zhang
Palmitoylation of ABCG5 is not required for the protein transport activity

10:20-12 Break and Posters

12-1:30 Lunch and Posters

1:50-3:30

Session 5

Chair Andras Varadi

1:50 Talk 18 Tamas Aranyi
Transcriptional regulation of MRP1-6: differences between mouse and man

2:10 Talk 19 Tong Shen
Development of sipholane triterpenes as modulators of multidrug resistance in cancer

2:30 Talk 20 Christian Paumi
Saccharomyces cerevisiae ABC transporter, Ycf1p, is negatively regulated via phosphorylation within the N-terminal Extension

2:50 Talk 21 Amit Tiwari
Up-regulation of MRP4 and down-regulation of influx transporters in human leukemic cells with acquired resistance to 6-mercaptopurine

3:10 Talk 22 Rémi-Martin Laberge
Collateral Sensitivity in Multidrug Resistant Tumor Cells modulated by P-glycoprotein (P-gp1).

3:30 Conference Ends